

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
25 January 2001 (25.01.2001)

PCT

(10) International Publication Number
WO 01/05706 A1

(51) International Patent Classification: C01F 11/46,
A61L 27/02

(21) International Application Number: PCT/GB00/02584

(22) International Filing Date: 5 July 2000 (05.07.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
9916601.9 16 July 1999 (16.07.1999) GB

(71) Applicant (for all designated States except US): BIO-
COMPOSITES LIMITED [GB/GB]; Etruscan Street,
Etruria, Stoke-on-Trent, Staffordshire ST1 5PQ (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): COOPER, John,
Joseph [GB/GB]; Biocomposites Limited, Etruscan
Street, Etruria, Stoke-on-Trent, Staffordshire ST1 5PQ
(GB).

(74) Agent: SALES, Robert, Reginald; Swindell & Pearson,
48 Friar Gate, Derby DE1 1GY (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- With international search report.
- Before the expiration of the time limits for amending the claims and to be republished in the event of receipt of amendments.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF PRODUCING SURGICAL GRADE CALCIUM SULPHATE

(57) Abstract: A method of producing surgical grade calcium sulphate suitable for use as resorbable osteoconductive bone void filler material. The method comprising forming an initial calcium sulphate di-hydrate from synthetic constituents; dehydrating the initial calcium sulphate di-hydrate to form calcium sulphate anhydrite; and subsequently rehydrating the calcium sulphate anhydrite and allowing subsequent calcium sulphate di-hydrate to crystallise out.

WO 01/05706 A1